

ABSTRACT OF THE DISCLOSURE

It is an object of the present invention to provide a wireless communication system, which ensures that communication can be maintained in an excellent status although a mobile wireless station may be moved in a service area. A CPU (210) of a mobile wireless station (2) in process of transmission is operated to causes a receiving circuit (202) to periodically notify the CPU (210) of the electric field intensity of a received radio wave. When the electric field intensity of the received radio wave becomes lower than a predetermined value, the CPU (210) is operated to judge the distance from a base station (1), with which the mobile wireless station (2) is currently communicating, is increased, and the CPU (210) is operated to control the receiving circuit (202) to receive radio waves on transmission frequencies of base stations (1) other than the base station (1) and detect the electric field intensities of the received radio waves. Then, the CPU (210) is operated to control the receiving circuit (202) to receive the radio wave of the base station (1) which is the strongest in the electric field intensity of the radio wave among the base stations (1). When the data of a DTMF signal of the radio wave is indicative of "transmission permitted", the CPU (210) is operated to control the receiving circuit (202) to switch to the base station (1) for communication. When, on the other hand, the data of the DTMF signal of the radio wave is indicative of "transmission inhibited", the CPU (210) is operated to control the receiving circuit (202) to receive radio waves of the base stations in order of decreasing electric field intensity of the radio wave, and switch to the base station (1) which transmits DTMF signal having data indicative of "transmission permitted".